

Jayden Koh

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OBJECTIVE

Computer Engineering student specializing in cybersecurity at Texas A&M seeking opportunities in developing secure systems with post-quantum cryptography, memory-safe software, and embedded devices.

EDUCATION

Texas A&M University

College Station, TX

December 2026

- Bachelor of Science in Computer Engineering
- Emphasis on Software & Systems and Communication & Networks
- Minor in Material Science and Embedded Systems
- GPA: 3.62

WORK EXPERIENCE

Secure and Trustworthy Hardware Lab *Research Assistant* Aug 2024 – Present

- Conducted research on hardware acceleration for Zero Knowledge Proofs at Texas A&M University.
- Implemented hardware acceleration for Post-Quantum Cryptography, CRYSTALS-Kyber and Dilithium.
- Presented Module-Learning with Errors and Fast NTT findings for CSCE 426 with Dr. JV.

MIT Lincoln Lab *Associate Instructor* Jun 2023 – Aug 2024

- Led a team of 8 Teaching Assistants to support and mentor students, growing team capacity by 150%.
- Authored and supervised 15 labs on embedded security and hardware hacking, growing library by 50%.
- Directed 16 teams in developing a secure remote firmware service, increasing deployments by 200%.

EXTRACURRICULAR ACTIVITIES

Engineering Mentorship Council *Mentor* Sep 2024 – Present

- Guided underclassmen at Texas A&M through College of Engineering processes like Entry-To-A-Major.
- Advised mentees through course selection, work-life balance, professionalism, and career development.

Hackathon Community *Hackathon Competitor* Nov 2023 – Present

- Designed websites and completed challenges in events like TAMUhack, HowdyHack, and Datathon.
- Implemented Next.JS and React components in UI/UX designs for competitions.

CTF Community *CTF Organizer & Competitor* May 2022 – Present

- Coordinated and authored challenges for idekCTF, Osu!Gaming CTF, and Digital Overdose CTF.
- Competed in dozens of CTFs like CSAW CTF Finals, PicoCTF, UIUCTF, redpwnCTF, and HSCTF.
- Developed and solved cryptography, digital forensics, binary exploit, and malware reversing challenges.

Personal Blog *Blogger* Jul 2021 – Present

- Maintain and update personal React and Next.js website and blog with technological achievements.
- Author technical writeups for cybersecurity gadgets, embedded systems, and hardware projects.

PROFESSIONAL CERTIFICATES

Practical Network Penetration Tester (PNPT) Offensive Security Certified Professional (OSCP)

Online Course – *TCM Security* Online Course – *Offensive Security*

Pursuing with expected completion in Spring 2025. Pursuing with expected completion in Summer 2025.

TECHNICAL SKILLS

- **Programming Languages:** Zig, Verilog, C/C++, ARM Assembly, NodeJS, Java, Python
- **Software & Tools:** LLVM, Catapult, Vivado, Linux, LC-3 toolchain, Docker, Git, GDB
- **Security:** RSA & AES, ECC, Ghidra, Active Directory, OWASP Top 10, Binary Exploitation, OSINT